

**City of Grand Prairie-Tourist Information Center SS Roofing
Section 0100**

The new system will include a new metal standing seam roof system that includes perimeter and penetration flashings. The new system will be mechanically attached into existing metal purlins with a standing seam roof system designed and certified for low slope. The new standing seam roofing system will include performance attributes and testing approvals of ASCE 7-90 or 7-05, FM 4471, ASTM 1646, ASTM E 1592, ASTM E 2140, ASTM E 330, ASTM E 1680, TAS 114 and TAS 100.

Work described in this section includes pre-formed metal roofing system complete with clips, perimeter and penetration flashing, and closures. Pre-formed includes both factory formed and/or site formed Standing Seam Metal Roofing system. Shop Drawings showing layout of roof panels and structural supporting member required in the installation. Install all components of the roof system in exact accordance with the manufacturer's standard published procedures as applicable to these project conditions and substrates.

Provide factory-formed metal roof panels, ribbed or mesa type, "T" panel, designed for installation by interconnecting raised standing seam side edges. Adjacent panels shall be mechanically attached to supports using concealed clips. Provide isolated sealant, factory-applied within the seam cap. Panels shall be seamed together utilizing manufacturer-approved, motorized seamer tool so that clip, metal roof panel, and sealant are completely engaged. Include clips, cleats, pressure plates, and accessories required for weather tight installation. A single panel length from ridge to eave is the basis of design. Contractor will install standing seam metal roof system per roofing manufacturer guidelines.

1. Remove existing clay tile roof where new roofing system to be installed. Remove and install Ice and Water Shield over entire roof field in shingle fashion.
2. All anchor clips will be set on sixteen (16) gauge galvanized. All anchor clips will be fastened into the structural roof substrate based on spacing pattern, approved with shop drawings for 100 MPH min duration on 3 second gust. Concealed Standard Anchor Clips: must be sixteen (16) gauge Galvalume steel, ONE (1) piece clip with projecting legs for additional panel alignment and provision for unlimited thermal movement in each direction along the longitudinal dimension. Replace any wood decking that is NOT structurally dimensional.
3. Provide standing seam panels incorporating mechanically interlocked, concealed anchor clips allowing unlimited thermal movement. Install all components of the roof system in exact accordance with the manufacturer's standard published procedures as applicable to these project conditions, substrates and warranty's.
4. Remove existing gutters and downspouts and re-install all new gutters and downspouts to meet drainage calculations.
5. Manufacturer to provide job-site inspections at least three times a week by full-time manufacturer representative for quality control and detail compliance of entire roofing system.

Roofing and Engineering based upon the Garland R-Mer Span 18"-24 GA Copper Penny.